

Premium System Components



FROM STATE-OF-THE-ART HI-RES AUDIO TO TRADITIONAL ANALOG AUDIO.



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* Not every mod	lel is available in every country.	

Reference 503 Two flagship models packed with TEAC's highly developed technologies.

In addition to DSD 11.2MHz native playback and PCM 384kHz/32 bit playback, DSD Up-convert allows you to enjoy DSD quality audio with your existing CD library.

Each model utilizes discrete dual-monaural technology, on both the D/A converter and analog pre-amp circuitry, which has been developed through decades of experience in the high-end and professional audio industries.

Choose between two listening styles: refined, high quality audio directly from your computer's headphone output with the USB DAC headphone amp, UD-503, or versatile, uncompromising audio on a USB network player, the NT-503.













- DSD 11.2MHz, and PCM 384kHz/32-bit Hi-Res Digital Audio Streaming from PC/Mac. • Max 700mW + 700mW of Headphone Output Power by Full-balanced Discrete Headphone Amplifier Circuit, Enables Balanced BTL Drive mode and Active-ground Drive mode for Excellent Headphone Listening Experience
- Dual TRS Headphone Jacks Allows You to Drive Your Headphones by either Balanced BTL Drive mode, Active-ground Drive mode, or Parallel-unbalanced Drive mode for Two.
- RCA Analog Unbalanced Input Equipped.
- Three TEAC's Patent-registerd Pin-point Feet for Perfect Balance and Easy Installation





USB DAC/Network Player NT-503







- DSD 11.2MHz, and PCM 384kHz/32-bit Hi-Res Digital Audio Streaming from PC/Mac.
- Versatile Network Functions, DLNA 1.5 and Home Media, suppoting Hi-Res Audio Playback.
- High-quality Wireless Audio Playback from Smartphone/Tablet by aptX® Bluetooth®.
- Access to Premium Internet Music Services, Spotify, Deezer, Slacker and tunein. *1
- 5.6MHz DSD and 192kHz/24-bit PCM Hi-Res Audio Playback from Front USB Port.
- Gap-less Playback on DLNA, Home Media and USB Memory Playback.*2
- Max 500mW + 500mW of Headphone Output Power Supporting Parallel-unbalanced Drive.
- Free Remote Apps Provided for iOS and Android Device.
- *1: Not every service is available in every country. Subscription fee may required on some sevices.
- *2: Applicable on the same sampling frequency of WAV, FLAC, AAC ALAC, WMA, OGG and MP3 files.



÷tunein





TEAC HR Remote (for iOS) TEAC AVR Remote (for Android)



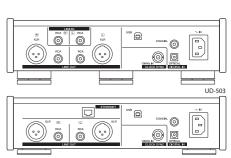
L-ch INPUT

A smart way of controlling the NT-503 from distant place in your room via Wi-Fi network.

Common Features on the UD-503 and NT-503

- High-end DAC Chip "VERITA AK4490" from Asahi-Kasei Electronics Employed for Each Left and Right Channel.
- Dual High Capacity Toroidal-core Power Transformers for both Left and Right Channel for Isorated Current Supply.
- Isolated Circuit Design Completely Separates the Digital and Analog Sections Electrically.
- Four "TEAC HCLD" Buffer Amplifiers are Employed in the Line Amplifier Section for Enhanced Current Output.
- Up-conversion to up to 12.2MHz DSD / 384kHz PCM, by FPGA (Fluency-function Programable IC Architecture).
- Two types of DSD Filters and Four types of PCM Digital Filters.
- 10MHz External Clock Input Supported.
- Dual High-precision Internal Clocks for 44.1kHz System and 48kHz System.
- XLR Balanced Analog Output, and RCA Unbalanced Analog Output.
- Switchable Polarity on XLR Output Jack. (2=HOT, 3=HOT)
- "TEAC QVCC" High-precision Volume Control Circuit for 256 Steps in 0.5dB Step.
- USB Audio, Coaxial Digital, and Optical Digital Inputs on Back Panel.
- Convenient Front Digital Input Jack for Coaxial/Optical. (Convertible)
- Low Power Consumption, and Auto Power Saving.
- Full Metal Body for Vibration Elimination and Elegant Style, with A4-sized Foot-print.
- Free Application Software for Mac/Windows, Provided for High-Res Audio Playback



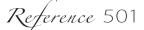


"TEAC HCLD" Circuit

Ideal for Air Travel with iPad.







The Ultimate Dual-monaural and Full-balance System*

Experience unparalleled sound quality.

Modern state-of-the-art digital technology and proven audio know-how will take you to the next level of audio nirvana.



















- PCM 384kHz/32-bit, DSD 5.6MHz Hi-Res Digital Audio Streaming via USB Cable. • Dual-monaural Circuit Design Eliminates Interference between Left and Right Channels.
- 4 types of DSD Cut-off Frequency, and 3 types of FIR Filter Options for Fine Tuning. • Dual Toroidal-core Power Transformers for both Left and Right Channels.









• Dimmable Needle-type Level Meters Visualize Pulse of the Music.

• CCLC Headphone Circuit for High-quality Headphone Listening.

• Full-balance Analog Circuit Design Eliminates Noise and Achieves Better Signal-to-Noise Ratio.

- AX-501

Coaxial 2-way Speaker System

S-300NEO

Stereo Integrated Amplifier







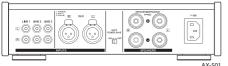


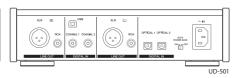


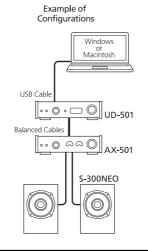




- Air Direct Center Pole System to Drive Massive Sound Power.
- Rear Bass-reflex Port for Rich Bass Sound.
- High-quality Luxurious Cabinet with Gloss Finish, available in Red Cherry and Piano Black.









Reference 501

Enjoy Hi-Res Audio without a PC Connection.

Look... Hi-Res audio without a PC!

Experiencing the Hi-Res audio world, with a conventional way of audio listening. A pure and rich sense of sound depth is delivered from DSD file on a single disc.

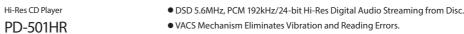














• Separated Power Transformers for Digital Section and Analog Section.









USB DAC

Stereo Integrated Amplifier with USB DAC AI-501DA

- High-performance and High-quality Class-D Amplifier Engineered by ABLETEC. • Toroidal-core Power Supply and Schott-key Barrier Diodes for Stable Current Supply.
- Dimmable Needle-type Level Meters Visualize Pulse of the Music.
- Digital Audio Inputs including USB Audio Input Allow Direct Digital Connection.



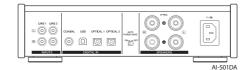


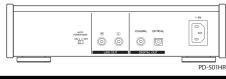


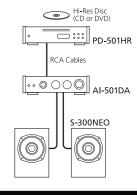




- Superb Energy Balance over Entire Audible Frequency Range. • Air Direct Center Pole System to Drive Massive Sound Power.
- Rear Bass-reflex Port for Rich Bass Sound.
- High-quality Luxurious Cabinet with Gloss Finish, available in Red Cherry and Piano Black.



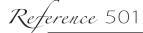




Example of

Reference 501





Driving your headphone

Maximize your headphone's potential by choosing the right damping factor setting.







UD-501





• PCM 384kHz/32-bit, DSD 5.6MHz Hi-Res Digital Audio Streaming via USB Cable.

- Dual-monaural Circuit Design Eliminates Interference between Left and Right Channels.
- 4 types of DSD Cut-off Frequency, and 3 types of FIR Filter Options for Fine Tuning.
- Dual Toroidal-core Power Transformers for both Left and Right Channels.













Headphone Amplifier

HA-501

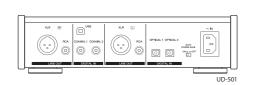


- Maximizing your Headphones Performance by Choosing the Right Damping Factor Settings.
- Class-A Amplifier with 1400mW + 1400mW Output Power Drives even High-end Headphones.
- Full-analog, and Dual-monaural Circuit Design.
- Active DC Servo Technology Eliminates Unwanted Output Signal Caused by Voltage Difference inside the Transistors.
- XLR Balance Audio Input to Connect with High-end Audio or Professional Audio Equipment
- Wide-pitch Line-in RCA Connector Layout Allows to Accommodate Large-shell Pin Plug.

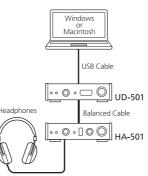
Damping Factor for Optimizing Performance

Each pair of headphones has its Damping Factor, a resisting force against non-intentional movement of the diaphragm moving air forwards and backwards as sound. The value of the Damping Factor varies model by model, as diaphragms are made by different materials, in different shapes or different construction designs. Since headphones' diaphragms are activated by a very small current compared to conventional speakers, the damping factor increases, the sound is lean and crisp, and has a close relationship with

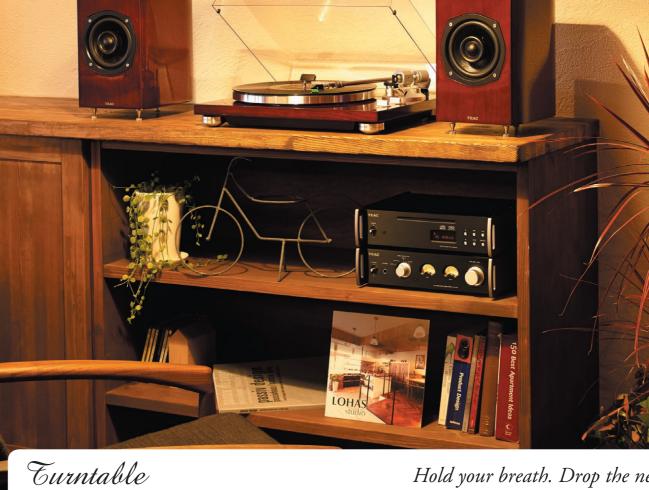
Position	Headphone Impedance	Damping Factor			
HIGH	32 ohms	DF = 76			
(MID-HIGH)	64 ohms	DF = 88			
MID	120 ohms	DF = 97			
(MID-LOW)	300 ohms	DF = 115			
LOW 600 ohms DF = 118					
Actual Damping Factor may vary due to impedance of					



Example of Configurations







Hold your breath. Drop the needle.

The audio system you always wanted as a kid can be yours with the latest technology.

With a Hi-Res CD Player, the conventional combination of amplifier and turntable turns into an advanced hi-fi system.

The unchanging pleasure of music has been re-envisioned with the latest modern technology.

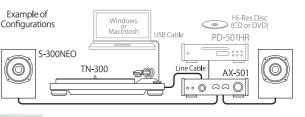


Premium Turntable with Phono EQ Amplifier/USB Output

TN-300

THE WINDS WHILE THE

- Authentic Belt-drive Turntable with DC Servo Motor.
- Manual Arm Lifter for Analog Playback.
- Static Balanced Straight Type Tone Arm.
- Anti-skating System Prevents Tracking Errors.
- USB Digital Output for Transferring Music from Vinyl to Mac or PC.
- Built-in Phono Equalizer Amplifier for MM Type Cartridge.
- 2-speed Turntable with 33-1/3 and 45 RPM for LP/EP Record Playback.
- Cabinet with Multi-coated Veneer and Beautiful Wood-grain. (TN-300-CH)
- Cabinet with Glossy Piano Finish. (TN-300-B, TN-300-R, TN-300-W)
- MM Type Cartridge Included. (audio-technica AT95E equivalent)
- Corrosion Resistant Gold-plated Terminals.













Reference 301













Hi-Res audio and Bluetooth® playback in a single-box.

Need to stream Hi-Res digital audio from a computer, wirelessly send digital audio from a smartphone, or even digitally expand your TV sound system to a superior 2.1ch Home Theatre System? The AI-301DA does it all. Enjoy a new approach to audio...













Hi-Res Digital Audio Streaming from PC/Mac via USB Cable.

- Bluetooth*, aptX* Codec High-quality Wireless Audio Streaming.
- 40W + 40W Class-D Power Amplifier Engineered by ICEpower.
- CCLC Headphone Amplifier for High-quality Headphone Listening.
- Auto Power-on with Incoming Digital Audio Signal.
- Subwoofer Pre-out for Easy Expansion to 2.1ch Home Theatre System.
- Ideal for Upgrading TV Sound from TV, Sonos Connect or Apple TV.



CD Player/FM Tuner PD-301

- Quick-loading Slot-in CD Player Supports MP3 and WMA Playback.
- Built-in FM Tuner with 20 Preset Station Memory.
- Front USB Port for WAV, AAC, MP3 and WMA Playback.
- Coaxial and Optical Digital Outputs Deliver CD, FM and USB Sources.



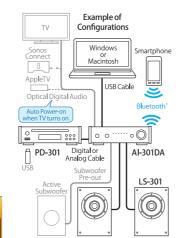
Coaxial 2-way Speaker System

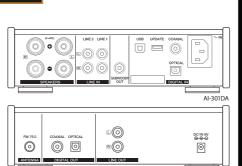
LS-301



• Wide response, up to 40kHz, Ideal for Hi-Res Audio Playback.

- Air Direct Center Pole System to Drive Massive Sound Power.
- Rear Bass-reflex Port for Rich Bass Sound.
- A Perfect Loudspeaker Partner for the Reference 301 series.







Reference 301

Delivering high-performance audio from a desktop component.

Leading-edge technologies contained in a small enclosure bring you a new way of enjoying master-tape quality music from a computer. Used as standalone with headphones, or integrated with your existing hi-fi, the UD-301 upgrades your music experience.





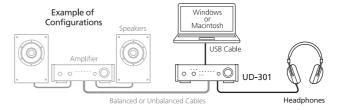


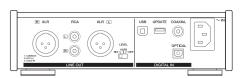






- Hi-Res Digital Audio Streaming from PC/Mac via USB Cable
- Asynchronous Transfer Mode, and 192kHz Up-conversion Option.
- Dual-monaural Circuit Design Eliminates Interference between Left and Right Channels.
- Dual-monaural CCLC Headphone Amplifier Circuit Design for Fine Headphone Listening.
- XLR Balanced Analog Audio Output for Connection with Professional-grade Equipment.
- Toroidal-core Power Transformer for Stable Internal Current Supply.
- Variable Headphone Output Level Suits to Use as a Headphone Amplifier.
- Switchable Output Mode, "Fixed", "Variable" or "Off", for Versatile System Configurations.*





TEAC and DSD



Since TEAC launched the first DSD Audio Recorder "TASCAM DS-D98" for professional audio market in 2001, we have been focusing potential of the DSD which is a high precision audio format, and has been launching numbers of DSD-capable products. Particularly, a Master Recorder "TASCAM DA-3000" which records/plays back DSD 5.6MHz audio format is used in recording studios world-widely,

and receiving high reputations from artists and sound engineers.

TEAC's DSD-capable products are filled with matured technologies and know-hows from atmosphere of the recording studios or concert halls where the music was originally played.



TASCAM DS-D98 (launched in 2001)

TEAC Premium System Components 2016

^{* &}quot;Variable" mode lets the UD-301 behave as a Pre-amplifier unit, while "Off" mode cancels to deliver output signals from XLR/RCA terminals on rear panel, when Headphone Jack is used.



Reference 101

Defining the Micro Component for the next generation.

Example of

Configurations

Supporting 192kHz/24-bit Hi-Res audio input, and Wireless Streaming, as well. Stunning Audio Performance for the next generation



HR-S101

Speakers: LS-101

Amplifier: Al-101DA

- Hi-Res Digital Audio Streaming from PC/Mac via USB Cable, with Up-conversion.
- Bluetooth*, aptX* Codec High-quality Wireless Audio Streaming
- 26W + 26W Class-D Power Amplifier with Cooling Fan-less Design.
- HR Loudness Circuit for Stunning Sound Performance.
- Vertical or Horizontal Settings, (Amplifier)
- Ultra Compact Bass-reflex Speakers fit Small Desktop Space.
- Auto Power-on with Incoming Digital Audio Signal
- Subwoofer Pre-out for Easy Expansion to 2.1ch Home Theatre System.
- Ideal for Upgrading TV Sound from TV, Sonos Connect or Apple TV.











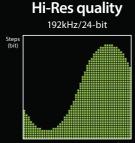
What is Hi-Res?



The "Hi-Res" logo defined by CEA and Japan Audio Society.

Hi-Res audio is ultra precise digital audio data close to the original analog waveform, by digitizing the sound more frequently and more precisely.

The CEA (Consumer Electronics Association) and the Japan Audio Society define products with capability of processing 96kHz/24-bit on digital audio equipment, or reproducing 40kHz or higher frequency response on analog audio equipment such as amplifier and speakers, and grants to accompany the "Hi-Res" logo with the product.





With the PCM (Pulse Code Modulation) format which is a major method of digitizing analog audio signal, sequential analog sound is sampled a million times in few seconds, and each sample is quantized to more than

Therefore, as number of samples and steps increase, the digital sound becomes closer to the original analog

Application Software

Providing a Hi-Res Audio Experience for Everyone.





Application Software for Hi-Res Audio Playback

TEAC HR Audio Player

Free to download

The TEAC HR Audio Player is a high-quality music playback application for Windows and Mac, with Hi-Res audio data processing capabilities including DSD 11.2MHz and PCM 384kHz/32-bit.

Used in conjunction with TEAC's USB DAC, the TEAC HR Audio Player allows you to listen to Hi-Res audio without the sort of complication typical of many other music playback applications. Simply select the connected device, and drag-and-drop music files onto the window of the application.

Everything is optimized for Hi-Res audio playback. The simplified screen of the TEAC HR Audio Player reduces the load on the CPU (which processes millions of calculations a second when playing back Hi-Res audio data) while the RAM Buffer Playback mode pre-loads music audio data prior to playback, further reducing the load on the CPU.

It's all about the sound..



• Compatible with Windows and Macintosh computers

Windows: Windows XP*1, Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10

Macintosh: OS X Lion (10.7), OS X Mountain Lion (10.8), OS X Mavericks (10.9), OS X Yosemite (10.10), OS X El Capitan (10.11.1)

- Compatible with TEAC UD-503, NT-503, AI-501DA, UD-501, AI-301DA, UD-301, AI-101DA, A-H01, UD-H01, and NP-H750
- Up to DSD 11.2MHz, PCM/FLAC 384kHz/32-bit, and up to 320kbps MP3 Files Playback*2
- ASIO 2.1 and DoP Modes for DSD 5.6M/2.8MHz Playback*2
- DSD File Playback on Mac (DoP mode)*2 • RAM Buffer Playback
- Repeat and Shuffle Playback Modes
- Drag-and-Drop Operation for Creating Playlist
- Save and Load Playlists
- Simplified Screen for reducing CPU load, and enhancing sound quality
- DSD File Playback on Mac (DoP mode)
- *1 Windows XP (32-bit) is supported on the UD-501, UD-301 and the Al-301DA. *2 DSD playback is supported on the UD-503, NT-503, UD-501, UD-301, and the Al-301DA.

PCM 384kHz playback is supported on the UD-503, NT-503, and the UD-501

Let's get started Hi-Res Audio with your computer, as easy as ABC.



Download the "TEAC HR Audio Player" from TEAC Website. (Free Download)

Supported OS: Windows XP (32-bit)*

Windows Vista Windows 7 Windows 8, 8.1

Windows 10

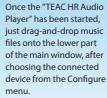
OS X Lion (10.7) OS X Mountain Lion (10.8)

OS X Mavericks (10.9)

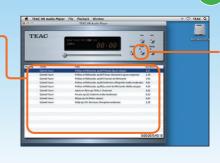
OS X Yosemite (10 10) OS X El Capitan (10.11.1)

* Windows XP supports UD-501, UD-301 and the AI-301DA





You'll then have a list of playable music files, you



Press"PLAY" to start playback.

Start Playback.

REPEAT and SHUFFLE play are also supported.

For even better quality playback, just choose

the "Expand to RAM" option from the Configure menu.

TEAC Premium System Components 2016

Reference To-Go



REFERENCE TO-GO

 □iPod
 □iPhone
 □iPad

To the summit.

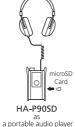
Portable amplifier/player with Hi-Res audio playback - including DSD





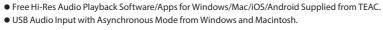








HA-P90SD



• Supports up to 128GB microSDXC Card. • Automatic Multi-format Tag Sorting. (Track name, Album name, Artist name, Playlist, Favorite)

• Repeat, Shuffle, and Gapless Playback from microSD Card. • Discreet Amplifier with BurrBrown OPA1602 SoundPLUS® Audio Op-amp and Push-pull Circuitry.

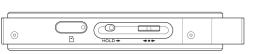
• 170mW + 170mW of High Power Output at 32-ohms Load. BF606 Blackfin® Processor by Analog Devices and BurrBrown PCM1795 D/A Converter.

• Dedicated 44.1kHz and 48kHz High-precision Crystal Master Clock Generators. • 8 Output Level Settings with High/Low Gain Switch and 4-step Attenuator Settings.

• Digital Coaxial Output of DSD64 (2.8MHz) via DoP. (with planned firmware update) • Slim and Robust All-aluminum Case, and Organic EL-display with Brightness Control.

• Built-in Li-ion Battery for 7-hours Operation with USB Quick-charge and Auto Power-off.







REFERENCE TO-GO

From iPhone or Android, Hi-Res Audio is in your hand.



HA-P90SD



Hi-Res Audio Playback App for iOS/Android Devices TEAC HR Audio Player for iOS TEAC HR Audio Player for Android

This iOS/Android App turns your iPhone, iPad, iPod touch and Android devices into a Hi-Res Audio Player, and delivers digital audio streaming to the HA-P90SD, the HA-P50SE and the HA-P50. Also supports playing back Music Library on your iPhone, iPad and iPod touch.

Reference To-Go □iPod □iPhone □iPad

REFERENCE TO-GO

Bringing Hi-Res Audio Out.

Introducing a New Special Edition player, redesigned both inside and out, with the latest technology.









- 96kHz/24-bit Hi-Res Audio Digital Streaming from iOS Devices and PC/ Mac via USB Cable.
- Digital Streaming from Android Devices via USB Cable.
- 160mW + 160mW High-performance Amplifier Circuit.
- Built-in Li-ion Battery with USB Charging.
- 8-hour Battery Life for Long-haul Flight, Ideal for Watching Movies on an iPad.















sound you get from a Reference Home Hi-Fi System. • 96kHz/24-bit Hi-Res Audio Digital Streaming from iOS

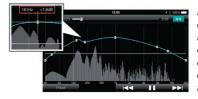
- Devices and PC/Mac via USB Cable. • Digital Streaming from Android Devices via USB Cable.
- Discreet Push-pull Circuit Design Achieves 0.001% T.H.D. • 160mW + 160mW High-performance Amplifier Circuit.
- Built-in Li-ion Battery with USB Charging.
- 8-hour Battery Life for Long-haul Flight, Ideal for Watching
- Movies on an iPad.



- Playback tracks on the standard iOS Music Library.
- Up-sampling Features.

HA-P50SE

- Touch-screen-based Graphic Equalizer with Real-time Analyzer with Save/Load Function
- Seamless Operation in iOS environment, such as Operation from iOS Control Center.
- Repeat and Shuffle Modes. • On-line Help and FAQs.
- $\bullet \, {\sf SNS} \, Integration \, to \, share \, track \, information \, with \, your \, friends \, via \, e\text{-mail}, \, {\sf Facebook} \, and \, {\sf Twitter}.$



A touch-screen based graphic equalizer with Real-Time Analyzer allows you to change equalizing curve by tapping and dragging. An exact frequency and increaseing/ decreasing value (dB) are shown for accurate equalizing.

Specifications Specifications

	Cation							1					T .		pecifications
Product Catego	ry		Integrated Amplifier		Integrated Amplifier with USB DAC		Network Player		D/A Converter		CD P	-		Headphone Amplifier	
Nodel Name			AX-501	AI-501DA	AI-301DA	HR-S101 (AI-101DA)	NT-503	UD-503	UD-501	UD-301	PD-501HR	PD-301	HA-501	HA-P90SD 🕣	HA-P50/HA-P50SE
ype of Product	t		Integrated Amplifier	Integrated Amplifier with USB DAC	Integrated Amplifier with USB DAC	Integrated Amplifier with USB DAC	USB DAC/ Network Player	USB DAC/ Headphone Amplifier	USB DAC	USB DAC	Hi-Res CD Player	CD Player/FM Tuner	Headphone Amplifier	Portable Headphone Amplifier/Player	Portable Headphone Amplifier
Key Features															
		USB Streaming	-	Υ	Y	Υ	Y	Y	Υ	Υ	-	-	-	Υ	Υ
		S/PDIF Digital	-	Y (Coaxial, Optical)	Y (Coaxial, Optical)	Y (Optical)	Y (Coaxial, Optical)	Y (Coaxial, Optical)	Y (Coaxial, Optical)	Y (Coaxial, Optical)	-	-	-	Y (Coaxial, Optical)	Y (Optical)
		Analog Balanced Analog	Y	Υ -	Y -	Y -	-	Y	-	-	-	-	Y	Y	Y -
ا ج	nputs	Bluetooth® Wireless	-	-	_ Y	_ Y	_ Y	_	_	-	-	_	-	_	_
isic		LAN	_	_	-	-	Y	_	_	_	_	_	_	_	_
Play		USB Memory	-	-	-	-	Υ	-	-	-	-	Υ	-	-	-
back		Tuner	-	-	-	-	Internet Radio	-	-	-	-	FM	-	-	-
		Audio CD (CD-DA)	-	-	-	-	-	-	-	-	Y	Υ	-	-	-
Built-in	n Disc Drive	Data CD (MP3/WMA)	-	-	-	-	-	-	-	-	Y	Y	-	-	-
		Data DVD (WAV) Data DVD (DSD)	-	-	-	-	-	-	-	-	Y	-	-	-	-
		11.2896 MHz	-	-	-	-	Y (*1, 4)	Y (*1, 4)	_	-	T -	-	-	_	-
	DSD	5.6448 MHz	_	_	Y (*1)	_	Y (*5, 6)	Y (*1)	Y (*1)	Y (*1)	Y (*17)	_	_	Y (*22)	_
		2.8224 MHz	-	-	Y (*1)	-	Y (*6, 7, 8)	Y (*1, 8)	Y (*1)	Y (*1)	Y (*17)	-	-	Y (*22)	-
	PCM	384 kHz / 352.8 kHz	-	-	-	-	Y (*1)	Y (*1)	Y (*1)	-	-	-	-	-	-
	(WAV)	192 kHz / 176.4 kHz	-	Y (*2)	Y (*2)	Y (*2)	Y (*9)	Y (*3)	Y (*2)	Y (*2)	Y (*17)	-	-	Y	-
Hi-Res	(,	96 kHz	-	Y (*3)	Y (*3)	Y (*3)	Y (*9)	Y (*3)	Y (*3)	Y (*3)	Y (*17)	-	-	Y	Y (*23)
S Audio	FLAC	192 kHz / 176.4 kHz	-	Y (*1)	Y (*1)	Y (*1)	Y (*10)	-	Y (*1)	Y (*1)	-	-	-	-	-
por	AAC	96 kHz	-	Y (*1)	Y (*1)	Y (*1)	Y (*10)	-	Y (*1)	Y (*1)	-	-	-	Υ	-
red.	AAC	96 kHz 96 kHz	-	-	-	-	Y (*10) Y (*10)	-	-	-	-	-	-	-	-
Aud	WMA Lossless		-	-	-	-	Y (*10)	-	-	-	_	-	-	-	-
o Fo	WAV	44.1kHz / 48 kHz / 88.2 kHz	-	Y (*3)	Y (*3)	Y (*3)	Y (*11)	-	Y (*3)	Y (*3)	Y (*17)	Y (*19)	-	Y	Y (*23)
rma	PCM/LPCM	44.1kHz / 48 kHz	-	Y (*3)	Y (*3)	Y (*3)	Y (*12)	Y (*3)	Y (*3)	Y (*3)	Y (*18)	Y (*20)	-	Y	Y (*23)
ದ	FLAC	44.1kHz / 48 kHz	-	Y (*1)	Y (*1)	Y (*1)	Y (*13)	-	Y (*1)	Y (*1)	-	-	-	Υ	-
	AAC	44.1kHz / 48 kHz / 88.2 kHz	-	-	-	-	Y (*11)	-	-	-	-	Y (*19)	-	-	-
Others	ALAC WMA Lossless	44.1kHz / 48 kHz / 88.2 kHz	-	-	-	-	Y (*11)	-	-	-	-	-	-	-	-
	WMA LOSSIESS	44.1kHz / 48 kHz / 88.2 kHz WMA 2, 7, 8, 9, 10	- -	-	-	-	Y (*10) Y (*14)	-		-	-	Y (*21)	-	_ _ Y	-
	OGG Vorbis	WIVIA 2, 7, 0, 9, 10	-	-	_	_	Y (*15)	_	_	-	_	- (21)	_	-	_
	MP3	MPEG-1/2 Layer-III	-	Y (*1)	Y (*1)	Y (*1)	Y (*16)	-	Y (*1)	Y (*1)	-	Y (*21)	-	Υ	Υ
		DAC	-	BurrBrown PCM5102	BurrBrown PCM1795	BurrBrown PCM1796	VERITA AK4490 x 2	VERITA AK4490 x 2	BurrBrown PCM 1795 x 2	BurrBrown PCM1795 x 2	Cirrus Logic CS4398	BurrBrown PCM5142	-	BurrBrown PCM1795	BurrBrown PCM5102
_ Digital		Up-conversion	-	-	-	Y (Switchable)	Y	Y	Y (Switchable)	Y (Switchable)	-	-	-	-	-
Section	Clock	Dual Internal Clock	-	-	-	-	Υ	Υ	-	-	-	-	-	-	-
qua ——	D.	External Clock Sync ual Monaural Design	-	-	-	-	Y	Y	_ 	-	-	-	_ У	-	-
₹		anced Circuit Design	- Y	-	-	-	Y Y	T V	T	-	_	-	T -	-	-
Section		TEAC HCLD Circuit	-	_	_	_	Y	Y	_	_	_	_	_	_	_
<u>a</u>		TEAC QVCC Circuit	-	-	-	-	Υ	Υ	-	-	-	-	-	-	-
Power	Toroida	I-core Power Transformer	Υ	Υ	-	-	Y	Y (Dual)	Y (Dual)	Υ	-	-	Υ	-	-
Specifications															
Type of Am	plifier		Class-D Amplifier (ABLETEC ALC0240)	Class-D Amplifier (ABLETEC ALC0180)	Class-D Amplifier (ICEpower)	Class-D Amplifier	-	_	_	_	_	_	-	_	_
Maximum		4 ohms (JEITA)	120 W + 120 W (1kHz)	90 W + 90 W (20 to 20kHz)	60 W + 60 W (1kHz)	26 W + 26 W (1kHz)	_	_	_	_	_	_	_	_	_
Output Pow	ver	8 ohms (JEITA)	70 W + 70 W 1kHz)	45 W + 45 W (20 to 20kHz)	30 W + 30 W (1kHz)	-	_	_				_	_	_	_
Rated		4 ohms (JEITA)	100 W + 100 W (1kHz)	60 W + 60 W (20 to 20kHz)	43 W + 43 W (1kHz)	20 W + 20 W (1kHz)	-	-	-	-	-	-	-	-	-
Output Pow	ver	8 ohms (JEITA)	65 W + 65 W (1kHz)	30 W + 30 W (20 to 20kHz)	22 W + 22 W (1kHz)	-	-	-	-	-	-	-	-	-	-
	Speaker Impeda		4 to 8 ohms	-	-	-	-	-	-	-	-	-			
		t 32 ohms load)	50 mW + 50 mW	50 mW + 50 mW	100 mW + 100 mW	100 mW + 100 mW	500 mW + 500 mW	700 mW + 700 mW (*27)	100 mW + 100 mW	100 mW + 100 mW	-	-	1400 mW + 1400 mW	170 mW + 170 mW	160 mW + 160 mW
Balanced B			-	-	-	-	-	Y	-	-	-	-	-	-	-
Parallel Unb			_	_	_	_	Y	Y	_	_	_	_	_	_	_
Damping Fa			-	-	-	-	-	-	-	-	-	-	Y	-	-
Active DC S	ervo Technolog	у	-	-	-	-	-	-	-	-	-	-	Y	-	-
Connector			1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack	1/8" (3.5mm) Stereo Jack	1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack x 2	1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack	-	-	1/4" (6.3mm) Stereo Jack	1/8" (3.5mm) Stereo Jack	1/8" (3.5mm) Stereo Jack
Analog	Line	RCA Pin	3	2	2	-	-	1	-	-	-	-	2	-	-
Inputs	Balanced	1/8" (3.5mm) Stereo Mini XLR 3-31	1 (*24)	-	-	1 -	-	-	-	-	-	-	1 (*24)	1 (*28)	1 (*29)
	palaticed	USB Type A	I (^24) -	-	-	-	1	1	-	-	_	-	I (^24)	1	1
	USB	USB Type B	-	1	1	1	-	-	11	1	-	-	-	-	-
Auc	Streaming	Micro USB Type B	-	-	-	-	-	-	-	-	-	-	-	1	1
Digital Inputs		RCA Pin	-	1	1	-	1	1	2	1	-	-	-	-	-
tud	S/PDIF	TOS-link	-	2	1	2	1	1	2	1	-	-	-	-	-
s/0[LICOA	1/8" (3.5mm) Mini	-	-	-	-	1	1	-	-	-	-	-	1 (*28)	1 (*29)
it bu	USB Memor	y USB Type A RCA Pin	-	-	-	-	1 (*25)	1 (*25)	_ 1	1 (*25)	1	1	1 (*25)	-	-
Analog	Balanced	XLR 3-32	-	-	-	-	1 (*25, 26)	1 (*25, 26)	1 (*26)	1 (*24, 25)	-	-	I ("25) -	-	-
Outputs	Subwoofer	RCA Pin	-	-	1	1	-	-	-	-	-	-	-	-	-
81.1.1		RCA Pin	-	-	-	-	-	-	-	-	1	1	-	-	-
Digital Outputs	S/PDIF	TOS-link	-	-	-	-	-	-	-	-	1	1	-	-	-
		1/8" (3.5mm) Mini Coaxial	-	-	-	-	-	_	-	-	-	-	-	1 (*28)	-
Frequency I (Products with response are		tz or higher frequency s" products.)	10Hz to 60kHz (+1dB/-5dB)	10Hz to 60kHz (+0dB/-3dB)	2Hz to 100kHz (-5dB)	20Hz to 45kHz (-5dB)	5Hz to 80kHz (+1dB/-3dB)	5Hz to 80kHz (+1dB/-3dB)	5Hz to 80kHz (-3dB)	5Hz to 55kHz (-3dB)	20Hz to 80kHz	20Hz to 20kHz (-3dB)	2Hz to 100kHz (+0dB/-3dB)	10Hz to 80kHz (LINE IN)	10Hz to 100kHz (AUDIO IN)
Signal-to-N			100dB (IHF-A/Input Short)	100dB (IHF-A/Input Short)	95dB (IHF-A/LPF, 20kHz)	90dB (IHF-A/LPF, 20kHz)	112dB(Un-bal)/110dB(Bal)	112dB(Un-bal)/110dB(Bal)	115dB	105dB	116dB	113dB	110dB	105dB or Higher	(*31)
₾	onic Distortions		0.005% (8 ohms, 1kHz, 1W)	0.05% (4 ohms, 1kHz, 45W)	0.01% (8 ohms, 1kHz, 1W)	0.02% (4 ohms, 1kHz, 1W)	0.0015% (1kHz, 20-20kHz)	0.0015% (1kHz, 20-20kHz)	0.0015% (1kHz)	0.0015% (1kHz)	0.0005% (DSD), 0.0004% (PCM)	0.005% (1kHz)	0.002% (32 ohms load)	0.004% (32 ohms load)	0.001% (32 ohms load)
º Power Cons	sumption (or Ba	ttery Life)	68 watts	55 watts	38 watts	28 watts	18 watts	16 watts	13 watts	10 watts	11 watts	8 watts	22 watts	Max. 7 hours	Max. 8 hours
Overall Dim	nensions (W x H	x D)	11.4" x 3.2" x 10.4" 290 x 81.2 x 264 mm	11.4" x 3.2" x 10.4" 290 x 81.2 x 264 mm	8.5" x 2.4" x 10.0" 215 x 61 x 254 mm	7.2" x 2.1" x 7.5" 182 x 53 x 191 mm	11.4" x 3.2" x 9.8" 290 x 81.2 x 248.7 mm	11.4" x 3.2" x 9.8" 290 x 81.2 x 248.7 mm	11.4" x 3.2" x 9.6" 290 x 81.2 x 244 mm	8.5" x 2.4" x 9.4" 215 x 61 x 238 mm	11.4" x 3.2" x 9.6" 290 x 81.2 x 244 mm	8.5" x 2.4" x 9.1" 215 x 61 x 232 mm	11.4" x 3.2" x 9.6" 290 x 81.2 x 244 mm	2.7" x 4.8" x 0.8" 69.6 x 123 x 21.5 mm(*30)	2.5" x 4.4" x 0.9" 64 x 112 x 21.7 mm (*30)
Weight			8.8 lbs. / 4.0 kg	8.8 lbs. / 4.0 kg	4.6 lbs. / 2.1 kg	2.6 lbs. / 1.2 kg	8.6 lbs. / 3.9 kg	9.3 lbs. / 4.2 kg	8.8 lbs. / 4.0 kg	4.4 lbs. / 2.0 kg	9.3 lbs. / 4.2 kg	4.6 lbs. / 2.1 kg	9.1 lbs. / 4.1 kg	9.9 oz. / 280 g	7.4 oz. / 210 g
			Power Cord (w/ Plug Adapter),	Power Cord (w/ Plug Adapter),	Power Cord,	Power Cord,	Power Cord,	Power Cord, Remote Control (RC-1319),	Power Cord (w/ Plug Adapter),		Power Cord (w/ Plug Adapter),	AC Adapter (GPE152-120125W),		USB Cable for PC,	USB Cable for PC,
Included Acces	sories		Remote Control (RC-1309), AAA Batteries x 2,	Remote Control (RC-1305), AAA Batteries x 2,	Remote Control (RC-1313), AAA Batteries x 2,	Remote Control (RC-1318), AAA Batteries x 2,	Remote Control (RC-1320), AAA Batteries x 2,	AAA Batteries x 2, RCA-Mini Cable,	RCAAudio Cable, Manual,	Power Cord, Manual	Remote Control (RC-1306), AAA Batteries x 2,	RCA Audio Cable, Remote Control (RC-1323),	Power Cord (w/ Plug Adapter), Manual,	DC Charging Cable, RCA Conversion Cable.	DC Charging Cable, Rubber Bands x 2,
			Manual, Warranty Card,	Manual, Warranty Card	Manual (inc. Warranty Card)	Rubber Feet x 4, Manual (inc. Warranty Card)	Manual (inc. Warranty Card)	Foot Cushion x 3. Manual (inc. Warranty Card)	Warranty Card	(inc. Warranty Card)	RCA Audio Cable, Manual, Warranty Card	AAA Batteries x 2, Manual (inc. Warranty Card)	Warranty Card	Rubber Bands x 2, Manual (inc. Warranty Card)	Manual (inc. Warranty Card)
1 Supports = levi-	ack from TEAC I'D	Audio Player via USB Input. *2 Supports	-		Supports playback from TEAC LID A		tical Digital Inpute #4 Supports deSignal		Momony and I AN /DNI A 11	Modia) *14 Supports Samulia - 5	uency 48k/44.1k/32k/22.05k/16k/11		ay and LAN (DLNA Harra Made) 4		0k /44 1k /20k /20 05k /16k /11 025k /0

*1 Supports playback from TEAC HR Audio Player via USB Input. *2 Supports playback from TEAC HR Audio Player via USB Input, and Coaxial Digital Input. *3 Supports playback from TEAC HR Audio Player via USB Input, and Coaxial Digital Input. *3 Supports playback from TEAC HR Audio Player via USB Input, and Coaxial Digital Input. *4 Supports dsf format playback from USB Flash Memory, and LAN (DLNA, Home Media), **7 Supports playback from USB Flash Memory, and LAN (DLNA, Home Media), **7 Supports playback from USB Flash Memory, and LAN (DLNA, Home Media), **9 Supports WAV playback from USB Flash Memory, and LAN (DLNA, Home Media), **9 Supports WAV playback from USB Flash Memory, and LAN (DLNA, Home Media), **9 Supports WAV playback from USB Flash Memory, and LAN (DLNA, Home Media), **10 Supports PLOY (Inputs (Coaxia), Digital), **10 Supports PLOY (Inputs (Coaxia)

16k/11.025k/8kHz from USB Flash Memory, and LAN (DNLA, Home Media). *14 Supports Sampling Frequency 48k/44.1k/32k/22.05k/16k/11.025k/8kHz from USB Flash Memory, and LAN (DLNA, Home Media). *15 Supports Sampling Frequency 48k/44.1k/32k/22.05k/16k/11.025k/8kHz from USB Flash Memory, and LAN (DLNA, Home Media). *17 Supports playback from DVD disc. *18 Supports playback from DVD dis

Specifications

Product Category		Stereo Speakers						
Model Name		S-300NEO	LS-301	HR-S101 (LS-101)	LS-H70A			
Type of Product		Coaxial 2-way Speakers Coaxial 2-way Speake		2-way Speakers	2-way Speakers			
Sp	ecifications							
	Type of Speaker	Coaxial 2-way/1-speaker Rear Bass-reflex (Magnetic shielded)	Coaxial 2-way/1-speaker Rear Bass-reflex	2-way/2-speakers Rear Bass-reflex	2-way/2-speakers Rear Bass-reflex			
	Tweeter	1" (25 mm) Soft Dome	3/4" (20 mm) Soft Dome	3/4" (20 mm) Soft Dome	1" (25 mm) Soft Dome			
S	Woofer	5" (130 mm) Cone	4" (100 mm) Cone	3" (70 mm) Cone	4.7" (120mm) OMF Cone			
pe	Maximum Input Power	100 watts	50 watts	35 watts	70 watts			
peaker section	Rated Input Power	50 watts	20 watts	25 watts	-			
	Impedance	6 ohms	6 ohms	4 ohms	4 ohms			
	Frequency Response	55 Hz to 33 kHz	65Hz to 40kHz	75Hz to 25kHz	55Hz to 35kHz			
2	Sensitivity	86 dB/W/m	85 dB/W/m	87dB/W/m	85dB/W/m			
	Overall Dimensions (W x H x D)	7.2" x 9.4" x 9.0" 184 x 240 x 229 mm (*1)	6.3" x 9.1" x 8.1" 161 x 230 x 207 mm (*1)	4.6" x 7.2" x 6.6" 116 x 182 x 167 mm	5.9" x 9.8" x 9.0" 150 x 250 x 229 mm			
	Weight	9.5 lbs. / 4.3 kg (per piece)	6 lbs. / 2.7 kg (per piece)	3.8 lbs. / 1.7 kg (per piece)	7.1 lbs. / 3.2 kg (per piece)			
Included Accessories		Speaker Cables (6.6ft./2m) x 2, Spike Screws x 6, Washers x 6, Foot Bases x 6, Cleaning Cloth, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x2, Cork Sheet Feet x 8, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x2, Cork Sheet Feet x 8, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x 2, Cork Sheet Feet x 8, Owner's Manual (inc. Warranty Card)			

Product Category	Turntable							
Model Name			TN-300					
Type of Product			Analog Turntable					
Specifications								
Turntable section		Tone Arm section		Cartridge section (audio-technica AT95EEquivalent installed at the factory.)				
Type of Turntable	Belt Drive	Type of Tone Arm	Static-balanced, Straight	Type of Cartridge	MM type			
Motor	DC Motor	Effective Arm Length	8.8" / 223 mm	Frequency Response	20 Hz to 20 kHz			
Rotation Speed 33 1/3 rpm, 45 rpm		Needle Pressure Range 0 to 5 grams		Output Level	4.5 mV ±3dB			
Variation of Speed ±2%		Supported Cartridge Weight	3.5 to 8.0 grams	Needle Pressure	1.4 g ±0.4 grams			
Wow and Flutter 0.2 %		Anti-skating Adjustment	Y	Cartridge Weight	6.5 g ±0.2 grams			
Signal-to-Noise Ratio 67dBor higher (A-weighted, 20kHz LPF)		Head Shell Weight	10 grams (*2)	Replacement Stylus	audio-technica ATN95E			
Analog Output (Phono/Line Sv	vitchable)	Digital Output		General				
Connector RCA Pin (Gold-plated)		Connector	USB Type B (*3)	Power Consumption	1.5 watts (less than 0.5 watts at standby)			
Phono Output Level 4.5 mV ±3 dB		Output Audio Format PCM 48 kHz/16-bit		Dimensions (W x H x D)	16.5" x 4.6" x 14"/ 420 x 117 x 356 mm			
Line Output Level	230 mV (-13 dBV)	Supported OS	Windows, Macintosh (*4)	Weight	10.8 lbs. / 4.9 kg			
Included Accessories	Rubber Mat, EP Record Adapter, Counter Weight, Head Shell, Cartridge (MM type, audio-technica AT95E equivalent), Platter, Dust Cover, Rubber Feet for Dust Cover x 2, Hinges x 2, RCA Audio Cable, AC Adapter (GPE053A-120050-Z), Owner's Manual (inc. Warranty Card)							

^{*1} Excluding protrusions. *2 Including screws, nuts, and wires. *3 USB BUS power supply is required from PC. (5V 500mW) *4 Visit TEAC web site for the latest information.

Reference for Icons





Supports DSD Digital Streaming. (Shown with Sampling Frequency)



Supports PCM Digital Streaming. (Shown with Sampling Frequency and Bit length)



Supports Digital-to-Analog Conversion by Built-in D/A Converter(s). Dual DAC for Left and Right channels.



Compatible with Hi-Res Playback Applications.



Supports Digital Streaming via USB Port.



Supports High-quality Wireless Audio Streaming by Bluetooth*, aptX* Codec.

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WARNING Listening headphones at a high volume for a long time may cause temporary or permanent hearing loss.

Authorized Dealer